REMARKS

Claims 6, 9, 10, 12-22, 28-34, and 36-45 were pending in the application. Claims 9, 39-41 and 43 have been amended. New claim 46 has been added. Accordingly, upon entry of the foregoing Amendment and Response, claims 6, 9, 10, 12-22, 28-34, and 36-46 will be pending in the application.

Support for the amendment to claim 43 and new claim 46 can be found throughout the specification, including at least at page 8, line 15 and in Table IV. Support for the amendments to claims 39 and 40 can be found throughout the specification, including at least at page 24, lines 20-21 and pages 33-35. The foregoing amendments introduce no new matter and are not related to issues of patentability.

The foregoing claim amendments should in no way be construed as an acquiescence to any of the Examiner's restrictions and were made solely to expedite prosecution of the present application. Entry of the foregoing Amendment and Response is respectfully in order and requested. Applicant reserves the right to pursue the claims as originally filed in this or a separate application(s).

Restriction Under 35 U.S.C. 121

The Examiner has required restriction to one of the following inventions as required under 35 U.S.C. 121:

Group I:

Claims 6, 9, 10, 17, 28-34, 36, 38-43 drawn to a recombinant inhibitor protein of a kallikrein comprising a serpin sequence wherein the Reactive Serpin Loop (RSL) of the serpin sequence is modified by at least one substrate active site sequence, fragments thereof, a molecular chimera thereof, a combination thereof, and variants thereof, specific for said kallikrein, and a diagnostic kit for the detection of a kallikrein in a specimen comprising the recombinant inhibitor protein of claim 39;

Group II:

Claims 12-16, 37, 44 and 45, drawn to an isolated DNA sequence encoding the recombinant inhibitor protein of claim 39, and a diagnostic kit for the detection of a kallikrein in a specimen comprising DNA sequence selected from the group consisting of SEQ ID NOs: 1, 3, 5, 7, 9, 11, 13, a sequence complementary thereof, fragment thereof, and variants thereof; and

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Group III: Claims 18-22, drawn to a method of treating or preventing a proteolysis-associated disorder in a mammal comprising administering to said mammal the pharmaceutical composition of claim 17.

Applicants traverse the restriction of Groups I-III on the grounds that restriction of the claims is improper based on the unity of the invention determined during the international stage of the instant application, and, furthermore, that the art cited by the Examiner does not teach the general inventive concept of the amended claims.

As amended, the claims are directed to a recombinant inhibitor protein, or an inhibiting fragment thereof, specific for a kallikrein, comprising a serpin sequence comprising a modified Reactive Serpin Loop (RSL), wherein the modified RSL is modified by at least one substrate active site sequence resulting in increased binding affinity for said kallikrein, e.g., the kallikrein hK2. The amended claims are also directed to a recombinant inhibitor protein, or an inhibiting fragment thereof, specific for a kallikrein, comprising a serpin sequence comprising a modified Reactive Serpin Loop (RSL), wherein the amino acid sequence of the modified RSL is selected from the group consisting of SEQ ID No 16, 17, 18, 19, 20, 21, and 22. The invention is further directed to a recombinant inhibitor protein, or an inhibiting fragment thereof, specific for a kallikrein, comprising a serpin sequence comprising a modified Reactive Serpin Loop (RSL), wherein the P6 – P6' region of the RSL is modified by at least one substrate active site sequence.

Chao et al. describes the tissue expression pattern of endogenous kallistatin, a member of the serpin superfamily which binds kallikrein. Applicants submit that in contrast to the Examiner's assertion, Chao et al. does not anticipate the claimed invention because the cited reference fails to teach the "special technical feature" of the claimed invention. The invention is directed to a recombinant inhibitor protein, or an inhibiting fragment thereof, specific for a kallikrein, comprising a serpin sequence comprising a modified RSL. As described in the specification, the invention relates to an inhibitor protein comprising a modified RSL region, wherein a sequence, e.g., a preferential recognition site for a protease, is changed in order to provide an inhibitor protein having improved binding for the target protease, e.g., kallikrein. The pending claims all relate to the general inventive concept of the invention, i.e., a recombinant inhibitor protein which inhibits a kallikrein, where the recombinant inhibitor protein has a modified RSL which is modified at a sequence such that the recombinant inhibitor

protein is specific for a kallikrein. Chao *et al.* teaches native kallistatin and does not teach modifying the RSL of kallistatin. Accordingly, a finding that there is lack of unity within the amended claims is improper, as the claimed invention is novel over Chao *et al.*

Furthermore, Applicants respectfully traverse the Restriction Requirement as a whole on the ground that the requirement conflicts with the finding of unity during the international stage of the instant application. Specifically, Applicants note that during the international phase of International Application No. PCT/IB2004/001040, of which the present case is a 35 U.S.C. §371 national phase application, the International Searching Authority did not find lack of unity among the claims. For the convenience of the Examiner, Applicants enclose herewith a copy of the International Search Report (enclosed herewith as Appendix A) and the International Preliminary Report on Patentability (IPRP) (enclosed herewith as Appendix B) which describe the unity of invention decision from the international application. As indicated at page 2 of the attached IPRP (Appendix B), there was no lack of unity of invention found for the corresponding PCT application. Applicants also submit herewith Appendix C, which contains a listing of the pending claims in the present application and the corresponding claims from the international application.

In order to be responsive, however, Applicants hereby elect the Group I invention (claims 6, 9, 10, 17, 28-34, 36, 38-43).

The Examiner has further restricted the Group I invention to the following groups:

Group A: MD820;

Group B: MD62;

Group C: MD61;

Group D: MD67; and

Group E: MDCI.

Applicants hereby traverse the restriction of Groups A-E on the grounds that the Restriction Requirement as a whole is improper and conflicts with the finding of unity during the international stage of the instant application (as described above).

In addition, Applicants assert that the subject matter of Groups A-E (claims 35-37) represent different embodiments of a single inventive concept which merit examination in a single application. The inhibitor proteins described in Groups A-E are no less than about 99% identical to one another and represent a single inventive concept. The recombinant inhibitor

proteins described in claim 10, *i.e.*, Groups A-E, refer to proteins having a high degree of identity to one another. As described in the specification, each of the proteins described in Groups A-E is a variant of the ACT protein having between 2-6 amino acid substitutions within the RSL region (see Figure 7A (MD 820), Figure 7B (MD 62), Figure 7D (MD 67), Figure 7E (MD 61), and Figure 7G (MDCI)). The P6-P6'RSL sequences of the inhibitor proteins of Groups A-E are also shown in Figure 8.

Applicants also note that an allowable generic claim (*i.e.*, claim 39, as amended) has been provided which links Groups A-E. Applicants respectfully submit that restriction among Groups A-E is improper as generic claim 39 links the species recited in Groups A-E. Applicants respectfully request that restriction under 35 U.S.C. §121 between groups A-E be reconsidered. If the restriction of Groups I-III is maintained, Applicants respectfully suggest that groups A-E be re-grouped as a unified group subject to a species election

In order to be responsive, however, Applicants hereby elect the Group D invention (MD 67).

For the foregoing reasons, Applicants respectfully request the withdrawal of the present Restriction Requirement.

While Applicants traverse the restriction of the claims as a whole for the reasons set forth above, in order to be responsive Applicants provide the following with respect to the species election. The Examiner has required that Applicants elect a species of the claimed invention of Group I from the following list:

- a single serpin sequence as listed in claim 9; and
- one sequence from the group consisting of SEQ ID NOs: 16, 17, 18, 19, 20, 21 or 22.

Applicants elect the species of serpin sequence, α -lantichymotrypsin (ACT). Claims which are readable on the elected species include claims 6, 9, 10, 12-22, 28-34, and 36-45.

With respect to the election of a sequence selected from the group consisting of SEQ ID NOs: 16, 17, 18, 19, 20, 21 or 22, Applicants note that SEQ ID NOs: 16, 17, 18, 19, 20, 21 or 22 represent modified RSLs, and are described in Figure 8 of the specification. More specifically, for example, SEQ ID NO: 16 corresponds to the P6-P6' region of protein MD820; SEQ ID NO: 17 corresponds to the P6-P6' region of protein MD62, and so forth. As such, the restriction of group A-E and the species election of SEQ ID NOs: 16 to 22 is inconsistent, as SEQ ID NOs: 16

to 22 correspond to the modified RSL region of the recombinant inhibitor proteins described in Groups A-E. If the restriction of Groups I-III is maintained, Applicants respectfully suggest that groups A-E be re-grouped with the respective sequences described in SEQ ID NOs: 16-22 as a single species election. Applicants hereby elect SEQ ID NO: 19 as the species of sequence recited in claim 41. Claims which are readable on the elected species include claims 6, 9, 10, 12-22, 28-34, and 36-45.

With respect to the elected species, it is Applicants understanding that the election of a species and specific species is for searching purposes only. It is also Applicants understanding that upon allowance of the elected claims, the generic claims also will be searched and Applicants will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 C.F.R. § 1.141. Applicants hereby reserve the right to traverse the species and specific species elections if Applicants' understanding is incorrect.

Application No.: 10/552,786 Docket No.: KZI-003US

The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 12-0080, under Order No. KZI-003US.

Dated: March 13, 2007

Respectfully subplitted

Cristin E. Howley, Ph.D. Registration No.: 47,281

LAHIVE & COCKFIELD, LLP

One Post Office Square

Boston, Massachusetts 02109

(617) 227-7400

(617) 742-4214 (Fax)

Attorney For Applicants

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

10:	
KATZAROV S.A. 19, rue des Epinettes CH-1227 Geneva SWITZERLAND	COMMUNICATION IN CASES FOR WHICH NO OTHER FORM IS APPLICABLE
	Date of mailing (day/month/year) 12/10/2004

Applicant's or agent's file reference 14542-PCT

REPLY DUE

See paragraph 1 below

International application No. PCT/IB2004/001040 International filing date (day/month/year)

05/04/2004

Applicant

UNIVERSITE DE LAUSANNE

NO REPLY DUE

1.	REPLY DUE within	rXXXX/days from the above date of mailing
		• .

2. COMMUNICATION:

The international search report and written opinion of the ISA mailed to you on 25.08.04 contained the following incorrect IPC symbol:

A61K37/64 .

Please find enclosed new forms PCT/ISA/210 and PCT/ISA/237 which replace the ones already in your possession.

We wish to apologize for any inconvenience caused.

A copy of this letter and its enclosures has been sent to the International Bureau in Geneva.

Name and mailing address of the International Searching Authority European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,

Fax: (+31-70) 340-3016

Authorized officer

Wolfgang-Peter Schießl

. ATENT COOPERATION TREATY

CUKKECTED VERSION

To:
KATZAROV S.A.
19, rue des Epinettes
CH-1227 Geneva
SWITZERLAND

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION

	(PCT Rule 44.1)		
	Date of mailing (day/month/year) 12/10/2004		
Applicant's or agent's file reference			
14542-PCT	FOR FURTHER ACTION See paragraphs 1 and 4 below		
International application No.	International filing date		
PCT/IB2004/001040	(day/month/year) 05/04/2004		
Applicant			
UNIVERSITE DE LAUSANNE			

1.	lx.	The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.
		Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46): When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the International Search Report; however, for more details, see the notes on the accompanying sheet.
		Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Fascimile No.: (41-22) 740.14.35
		For more detailed instructions, see the notes on the accompanying sheet.
2.		The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.
3.		With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:
		the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices. no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.
4.	Rem	inders

Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.

The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.

Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.

In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19

See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, Volume II, National Chapters and the WIPO Internet site.

Name and mailing address of the International Searching Authority

European Patent Office, P.B. 5818 Patentlaan 2

Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016

Authorized officer

Wolfgang-Peter Schießl

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the *PCT Applicant's Guide*, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report and the written opinion of the International Searching Authority, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only (see *PCT Applicant's Guide*, Annexes B1 and B2).

The attention of the applicant is drawn to the fact that amendments to the claims under Article 19 are not allowed where the International Searching Authority has declared, under Article 17(2), that no international search report would be established (see *PCT Applicant's Guide*, Volume I/A, paragraph 296).

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

PATENT COOPERATION TREATY

PCT

CORRECTED VERSION

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER		see Form PCT/ISA/220			
ACTION as well as, where applicable, item 5 below.						
International application No.	International filing date (day/month/year) (Earliest) Priority Date (day/month/year)					
PCT/IB2004/001040	CT/IB2004/001040 05/04/2004 04/04/2003					
Applicant						
UNIVERSITE DE LAUSANNE						
This International Search Report has beer according to Article 18. A copy is being tra	n prepared by this International Sear nsmitted to the International Bureau	ching Auth	ority and is transmitted to the applicant			
This International Search Report consists	of a total ofshe	ets.				
X It is also accompanied by	a copy of each prior art document c	ted in this	report.			
language in which it was filed, unle	ess otherwise indicated under this it	em.	is of the international application in the			
The international sthis Authority (Rul	search was carried out on the basis e 23.1(b)).	of a transla	ation of the international application furnished to			
b. X With regard to any nucled	tide and/or amino acid sequence	disclosed i	in the international application, see Box No. I.			
2. Certain claims were four	nd unsearchable (See Box II).					
3. Unity of invention is lack	king (see Box III).					
4. With regard to the title ,						
the text is approved as sul	omitted by the applicant.	ï				
X the text has been establish	ned by this Authority to read as follow	vs:				
INHIBITOR PROTEINS OF	A PROTEASE AND USE TH	EREOF				
	•					
5. With regard to the abstract,						
X the text is approved as sub	• • • •					
the text has been establish may, within one month from	ned, according to Rule 38.2(b), by the the date of mailing of this internati	is Authority onal searcl	as it appears in Box No. IV. The applicant h report, submit comments to this Authority.			
6. With regards to the drawings,						
a. the figure of the drawings to be published with the abstract is Figure No. 4a, 4b						
X as suggested by the applicant.						
as selected by this Authority, because the applicant failed to suggest a figure.						
	Authority, because this figure bette	r character	izes the invention.			
b. none of the figures is to be	published with the abstract.					

INTERNATIONAL SEARCH REPORT

iternational application No.

PCT/IB2004/001040

Вох	No. I	Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sheet)
1.	With inver	regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed nation, the international search was carried out on the basis of:
	a.	type of material
		X a sequence listing
		table(s) related to the sequence listing
	b.	format of material
		in written format
		in computer readable form
	c.	time of filing/furnishing
		contained in the international application as filed
		filed together with the international application in computer readable form
		furnished subsequently to this Authority for the purpose of search
2.		In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
3.	Addit	ional comments:
		•

International application No. PCT/IB2004/001040

INTERNATIONAL SEARCH REPORT

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. X Claims Nos.: 18-22 because they relate to subject matter not required to be searched by this Authority, namely:
Although claims 18-22 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition
2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest The additional search fees were accompanied by the applicant's protest.
No protest accompanied the payment of additional search fees.

INTER ATIONAL SEARCH REPORT

PCT/IB2004/001040

a. classification of subject matter IPC 7 C12N15/09 C12N15/15 C12P21/02 C12N9/64 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) IPC 7 C12N C12P Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, Sequence Search C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. US 5 827 662 A (COOPERMAN BARRY Χ ET AL) 1-3,5,27 October 1998 (1998-10-27) 7-9,12, 14-17, 23,25, 26, 28-36,38 column 6, lines 48-67, Table I and II and claims 1-6 WO 95/27053 A (UNIV PENNSYLVANIA) Х 1-3,5,7-9,12, 12 October 1995 (1995-10-12) 14-17, 23,25, 28-36,38 page 4, first paragraph, page 14, last paragraph Further documents are listed in the continuation of box C. Patent family members are listed in annex. Χ Special categories of cited documents: later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance invention "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention filing date cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docu-"O" document referring to an oral disclosure, use, exhibition or ments, such combination being obvious to a person skilled in the art. "P" document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 1 2. 10. 04 7 October 2004 Authorized officer Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Simm, M.D. Fax: (+31-70) 340-3016

5

INTEL ATIONAL SEARCH REPORT

PCT/IB2004/001040

	A DOCUMENTO CONCIDENCE TO DE CELEVANO.	l				
C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT						
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.				
A	JANCIAUSKIENE S: "Conformational properties of serine proteinase inhibitors (serpins) confer multiple pathophysiological roles" BIOCHIMICA ET BIOPHYSICA ACTA. MOLECULAR BASIS OF DISEASE, AMSTERDAM, NL, vol. 1535, no. 3, 26 March 2001 (2001-03-26), pages 221-235, XP004277055 ISSN: 0925-4439 the whole document	1-38				
T	BOS I G A ET AL: "Effect of reactive site loop elongation on the inhibitory activity of C1-inhibitor" BIOCHIMICA ET BIOPHYSICA ACTA, vol. 1699, no. 1-2, 1 June 2004 (2004-06-01), pages 139-144, XP004509918 the whole document	1-38				
A	EP 1 029 921 A (UNIV TEXAS) 23 August 2000 (2000-08-23) the whole document	1-38				

INTER ATIONAL SEARCH REPORT

Information on patent family members

Instructional Application No
PCT/IB2004/001040

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PATENT COOPERATION TE ATY

CORRECTED From the VERSION INTERNATIONAL SEARCHING AUTHORITY To: WRITTEN OPINION OF THE see form PCT/ISA/220 INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet) Applicant's or agent's file reference FOR FURTHER ACTION see form PCT/ISA/220 See paragraph 2 below International application No. International filing date (day/month/year) Priority date (day/month/year) 05.04.2004 PCT/IB2004/001040 04.04.2003 International Patent Classification (IPC) or both national classification and IPC C12N15/09, C12N15/15, C12P21/02, A61K37/64, C12N9/64 Applicant UNIVERSITE DE LAUSANNE 1. This opinion contains indications relating to the following items: ☑ Box No. I Basis of the opinion Box No. II **Priority** ☑ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability ☐ Box No. IV Lack of unity of invention Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement ☐ Box No. VI Certain documents cited ☐ Box No. VII Certain defects in the international application ☐ Box No. VIII Certain observations on the international application **FURTHER ACTION** 2. If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date. whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220.

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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

_	Box N	lo. I Basis of the opinion
1.		egard to the language , this opinion has been established on the basis of the international application in nguage in which it was field, unless otherwise indicated under this item.
	la	his opinion has been established on the basis of a translation from the original language into the following inguage , which is the language of a translation furnished for the purposes of international search under Rules 12.3 and 23.1(b)).
2.	With r	egard to any nucleotide and/or amino acid sequence disclosed in the international application and sary to the claimed invention, this opinion has been established on the basis of:
	a. typ	e of material:
	\boxtimes	a sequence listing
		table(s) related to the sequence listing
	b. for	nat of material:
		in written format
		in computer readable form
	c. time	e of filing/furnishing:
		contained in the international application as filed.
		filed together with the international application in computer readable form.
		furnished subsequently to this Authority for the purposes of search.
3.	h C	a addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto as been filed or furnished, the required statements that the information in the subsequent or additional opies is identical to that in the application as filed or does not go beyond the application as filed, as ppropriate, were furnished.
4.	Additi	onal comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

_	Вох	No. II	Priority
1.	\boxtimes	The fol	owing document has not been furnished:
		\boxtimes	copy of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(a)).
			translation of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(b)).
			quently it has not been possible to consider the validity of the priority claim. This opinion has eless been established on the assumption that the relevant date is the claimed priority date.
2.		has bee	inion has been established as if no priority had been claimed due to the fact that the priority claim en found invalid (Rules 43 <i>bis</i> .1 and 64.1). Thus for the purposes of this opinion, the international ate indicated above is considered to be the relevant date.
3.	Add	itional o	bservations, if necessary:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
T 0	The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:				
Ε	the entire international applica	tion,			
Þ	l claims Nos. 18-22				
b	ecause:				
×	the said international application subject matter which does not	on, or requi	the said claims Nos. 18-22 in respect of i.a. relate to the following ire an international preliminary examination (specify):		
	see separate sheet				
	the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):				
	the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.				
×	no international search report has been established for the whole application or for said claims Nos. 18-22				
	the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:				
	the written form		has not been furnished		
			does not comply with the standard		
	the computer readable form		has not been furnished		
		-	does not comply with the standard		
	the tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.				
	See separate sheet for further	detai	Is		

Box No. V Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

4,6,10,11, 13, 24,27, 37

No: Claims

1-3,5,7-9,12,14-17,23, 25,26,28-36,38

Inventive step (IS)

Yes: Claims

4,6,10,11,13,37

No: Claims

6,24,27

Industrial applicability (IA)

Yes: Claims

1-17,23-38

No: Claims

2. Citations and explanations

see separate sheet

Re Item III.

Claims 18-22 relate to subject-matter considered by this Authority to be covered by the provisions of Rule 67.1(iv) PCT. Consequently, no opinion will be formulated with respect to the industrial applicability of the subject-matter of these claims (Article 34(4)(a)(I) PCT).

Re Item V.

1 The following documents are referred to in this communication:

D1: US 5 827 662 A (COOPERMAN BARRY ET AL) 27 October 1998 (1998-10-

27)

D2: WO 95/27053 A (UNIV PENNSYLVANIA) 12 October 1995 (1995-10-12)

2 INDEPENDENT CLAIM 1

2.1 The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 1 is not new in the sense of Article 33(2) PCT.

Document D1 (see column 6, lines 48-67, Table I and II and claims 1-6) discloses a method of producing recombinant serine protease inhibitors (antichymotripsin variants) capable of effectively modulating serine protease activity. The inhibitor comprises a hinge region of a reactive loop which have modified aminoacid sequences (positions 349-368).

The compositions are specially useful in regulating inflammatory processes related to serine proteases accumulating in cells or tissues: tumour migration is mentioned among others (claim 3).

Similarly, D2 (page 4, first paragraph and page 14, last paragraph) discloses antichymotypsin analogue shaving aminoacid substitutions at positions 356-361, useful in the treatment of lung inflammation among others.

Thus, in view of D1-D2 the present claim 1 and the dependent claims 2-4,5,7,8,9 is not novel.

3 INDEPENDENT CLAIMS 12,14,16, 17, 23 and 28

These independent claims would be novel and inventive only when referring to a novel an inventive inhibitor protein, because D1-D2 comprise as well the isolated DNA encoding for the recombinant inhibitor protein, the expression vector, the cells, the pharmaceutical compositions (or strong indications), the medical use the method of producing the inhibitor and diagnostic kits.

Moreover, the subject-matter of dependent claims 15,25,26, 29-36 is as well disclosed in D1-D2 or is common procedure in the field.

- The sequences corresponding to SEQID N° 1-22 are novel. The exact mutations of RSL sequences 16-22 have not been found in the prior art. These specific recombinant ACT inhibitors are in view of the examples of the present application more specific to a targeted serin protease as the wild-type ACT. Thus, specific recombinant ACT inhibitors appear to be inventive.
- Claims 1-3 and 5 do not meet the requirements of Article 6 PCT in that the matter for which protection is sought is not clearly defined. The claims attempt to define the subject-matter in terms of the result to be achieved, which merely amounts to a statement of the underlying problem, without providing the technical features necessary for achieving this result.
 - Claims 1-3 are not supported by the description as required by Article 6 PCT, as its/their scope is broader than justified by the description and drawings. The use of the word "chimeric" in the present invention is not justified, the proteins claimed are not chimeras (two different genes as origin of the protein) but just recombinant variants of ACT.
- The subject-matter of claims 6, 24 and 27 although formally new, would only appear to be inventive when combined with the claims related to novel and inventive inhibitor protein of protease (Art. 33(3) PCT).

\TENT COOPERATION TRE

Appendix 13

From the INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

Corrected version

To:

PFEND, Gilles KATZAROV S.A. 19, rue des Epinettes CH-1227 Genève SUISSE PCT

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(PCT Rule 71.1)

Date of mailing (day/month/year)

29.09.2005

Applicant's or agent's file reference

14542-PCT

IMPORTANT NOTIFICATION

International application No. PCT/IB2004/001040

International filing date (day/month/year) 05.04.2004

Priority date (day/month/year)

04.04.2003

Applicant

UNIVERSITE DE LAUSANNE et al.

- 1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary report on patentability and its annexes, if any, established on the international application.
- 2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- 3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

The applicant's attention is drawn to Article 33(5), which provides that the criteria of novelty, inventive step and industrial applicability described in Article 33(2) to (4) merely serve the purposes of international preliminary examination and that "any Contracting State may apply additional or different criteria for the purposes of deciding whether, in that State, the claimed inventions is patentable or not" (see also Article 27(5)). Such additional criteria may relate, for example, to exemptions from patentability, requirements for enabling disclosure, clarity and support for the claims.

Name and mailing address of the international preliminary examining authority:

European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465 Authorized Officer

Rauf, A

Tel. +49 89 2399-7548



TATENT COOPERATION TRE TY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 14542-PCT	FOR FURTHER A	ACTION	See Form PCT/IPEA/416				
International application No. PCT/IB2004/001040	International filing date 05.04.2004	e (day/month/year)	Priority date (day/month/year) 04.04.2003				
	International Patent Classification (IPC) or national classification and IPC C12N15/09, C12N15/15, C12P21/02, C12N9/64						
Applicant UNIVERSITE DE LAUSANNE et al.							
This report is the international prelication Authority under Article 35 and trans	iminary examination r smitted to the applica	eport, established by thi nt according to Article 3	s International Preliminary Examining 6.				
2. This REPORT consists of a total of	f 7 sheets, including t	this cover sheet.					
3. This report is also accompanied by	ANNEXES, comprisi	ing:					
a. 🗵 sent to the applicant and to	the International Bure	eau) a total of 5 sheets	, as follows:				
sheets of the descriptio and br sheets containin Administrative Instruction	g rectifications author	ings which have been a ized by this Authority (s	mended and are the basis of this report ee Rule 70.16 and Section 607 of the				
sheets which supersed beyond the disclosure in Supplemental Box.	e earlier sheets, but w n the international app	hich this Authority cons plication as filed, as indi	iders contain an amendment that goes cated in item 4 of Box No. I and the				
b. ☐ (sent to the International Bu sequence listing and/or table Box Relating to Sequence L	es related thereto, in d	computer readable form	er of electronic carrier(s)) , containing a only, as indicated in the Supplemental Instructions).				
This report contains indications relations	ating to the following i	tems:					
☑ Box No. I Basis of the opini	ion						
☐ Box No. II Priority							
☐ Box No. III Non-establishme	nt of opinion with rega	ard to novelty, inventive	step and industrial applicability				
☐ Box No. IV Lack of unity of in		•	, and the second second				
applicability; citat	nent under Article 35(2 ions and explanations	 with regard to novelty supporting such staten 	, inventive step or industrial nent				
☐ Box No. VI Certain documen							
	the international app						
☐ Box No. VIII Certain observation	ons on the internation	al application					
Date of submission of the demand		Date of completion of this	s report				
04.02.2005		29.09.2005					
Name and mailing address of the international preliminary examining authority:	***************************************	Authorized Officer	stitches Palantany.				
European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 Fax: +49 89 2399 - 4465	Gepmu d	Simm, M.D. Telephone No. +49 89 23	999-7411				
			. Office eu				

_				
	Box No. I Basis of the rep	port		
 With regard to the language, this report is based on the international application in the language in filed, unless otherwise indicated under this item. 				
	This report is based on t which is the language of	ranslations from the original language into the following language , a translation furnished for the purposes of:		
	publication of the inte	under Rules 12.3 and 23.1(b)) rnational application (under Rule 12.4) ary examination (under Rules 55.2 and/or 55.3)		
2.	have been furnished to the re	of the international application, this report is based on (replacement sheets which eceiving Office in response to an invitation under Article 14 are referred to in this I are not annexed to this report):		
	Description, Pages			
	1-39	as originally filed		
	Claims, Numbers			
	1-38	received on 08.02.2005 with letter of 04.02.2005		
	Drawings, Sheets			
	1/15-15/15	as originally filed		
	□ a sequence listing and/or	any related table(s) - see Supplemental Box Relating to Sequence Listing		
3.		esulted in the cancellation of:		
	the description, pagesthe claims, Nos.			
	☐ the drawings, sheets/fi☐ the sequence listing (s	specify):		
	☐ any table(s) related to	sequence listing (specify):		
1 .	Supplemental Box (Rule 70.2)	· <i>''</i>		
	the description, pagesthe claims, Nos.			
	☐ the drawings, sheets/fi☐ the sequence listing (s			
		sequence listing (specify):		
	* If item 4 applies,	some or all of these sheets may be marked "superseded "		

	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
1.	The obv	ne questions whether the claimed invention appears to be novel, to involve an inventive step (to be non- povious), or to be industrially applicable have not been examined in respect of:			
		the entire international applicat	ion,		
	\boxtimes	claims Nos. 18-22			
		because:			
	Ø	the said international applicatio subject matter which does not i	n, or requi	the said claims Nos. 18-22 in respect of i.a. relate to the following ire an international preliminary examination (specify):	
		see separate sheet			
		the description, claims or drawi that no meaningful opinion coul	ngs Id be	(indicate particular elements below) or said claims Nos. are so unclear formed (specify):	
		the claims, or said claims Nos. could be formed.	are s	so inadequately supported by the description that no meaningful opinion	
	\boxtimes	no international search report has been established for the said claims Nos. 18-22			
		the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Anne: C of the Administrative Instructions in that:			
		the written form		has not been furnished	
				does not comply with the standard	
		the computer readable form		has not been furnished	
				does not comply with the standard	
		the tables related to the nucleot not comply with the technical re	tide a equire	and/or amino acid sequence listing, if in computer readable form only, do ements provided for in Annex C-bis of the Administrative Instructions.	
	☐ See separate sheet for further details			, Is	

International application No. PCT/IB2004/001040

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

4,13, 24,27, 37

No: Claims

1-3,5-12,14-17,23, 25,26,28-36,38

Inventive step (IS)

Yes: Claims

4,13,37

No: Claims

6,10,11, 24,27

Industrial applicability (IA)

Yes: Claims

1-17,23-38

No: Claims

2. Citations and explanations (Rule 70.7):

see separate sheet

_	Şι	ıppl	emental Box relating to Sequence Listing
C	onti	inua	tion of Box I, item 2:
1.			egard to any nucleotide and/or amino acid sequence disclosed in the international application and sary to the claimed invention, this report has been established on the basis of:
	a.	type	of material:
		\boxtimes	a sequence listing
			table(s) related to the sequence listing
	b.	form	at of material:
			in written format
			in computer readable form
	c. 1	time	of filing/furnishing:
			contained in the international application as filed
			filed together with the international application in computer readable form
			furnished subsequently to this Authority for the purposes of search and/or examination
			received by this Authority as an amendment on
2.		the ad	addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating ereto has been filed or furnished, the required statements that the information in the subsequent or ditional copies is identical to that in the application as filed or does not go beyond the application as filed, appropriate, were furnished.
3.	Ad	ditio	nal observations, if necessary:

Re Item III.

Claims 18-22 relate to subject-matter considered by this Authority to be covered by the provisions of Rule 67.1(iv) PCT. Consequently, no opinion will be formulated with respect to the industrial applicability of the subject-matter of these claims (Article 34(4)(a)(l) PCT).

Re Item V.

1 The following documents are referred to in this communication:

D1: US 5 827 662 A (COOPERMAN BARRY ET AL) 27 October 1998 (1998-10-27)

D2: WO 95/27053 A (UNIV PENNSYLVANIA) 12 October 1995 (1995-10-12)

2 INDEPENDENT CLAIM 1

2.1 The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 1 is not new in the sense of Article 33(2) PCT.

Document D1 (see column 6, lines 48-67, Table I and II and claims 1-6) discloses a method of producing recombinant serine protease inhibitors (antichymotripsin variants) capable of effectively modulating serine protease activity. The inhibitor comprises a hinge region of a reactive loop which have modified aminoacid sequences (positions 349-368). Kallikrein is mentioned on column 10, lines 5 and 13.

The compositions are specially useful in regulating inflammatory processes related to serine proteases accumulating in cells or tissues: tumour migration is mentioned among others (claim 3).

Similarly, D2 (page 4, first paragraph and page 14, last paragraph) discloses antichymotypsin analogue shaving aminoacid substitutions at positions 356-361, useful in the treatment of lung inflammation among others.

Thus, in view of D1-D2 the present claim 1 and the dependent claims 2-3,5,7,8,9 are not novel.

3 INDEPENDENT CLAIMS 12,14,16, 17, 23 and 28

These independent claims would be novel and inventive only when referring to a novel an inventive inhibitor protein, because D1-D2 comprise as well the isolated DNA encoding for the recombinant inhibitor protein, the expression vector, the cells, the pharmaceutical compositions (or strong indications), the medical use the method of producing the inhibitor and diagnostic kits.

Moreover, the subject-matter of dependent claims 15,25,26, 29-36 is as well disclosed in D1-D2 or is common procedure in the field.

- The sequences corresponding to SEQID N° 1-22 are novel. The exact mutations of RSL sequences 16-22 have not been found in the prior art. These specific recombinant ACT inhibitors are in view of the examples of the present application more specific to a targeted serin protease as the wild-type ACT. Thus, specific recombinant ACT inhibitors appear to be inventive.
- Claims 1-3 and 5 do not meet the requirements of Article 6 PCT in that the matter for which protection is sought is not clearly defined. The claims attempt to define the subject-matter in terms of the result to be achieved, which merely amounts to a statement of the underlying problem, without providing the technical features necessary for achieving this result.

Claims 1-3 are not supported by the description as required by Article 6 PCT, as its/their scope is broader than justified by the description and drawings. The use of the word "chimeric" in the present invention is not justified, the proteins claimed are not chimeras (two different genes as origin of the protein) but just recombinant variants of ACT.

The subject-matter of claims 6, 24 and 27 although formally new, would only appear to be inventive when combined with the claims related to novel and inventive inhibitor protein of protease (Art. 33(3) PCT).

APPENDIX C

Application No. 10/552,786 International Phase of International Application No. PCT/IB2004/001040 6	Currently Pending Claim in U.S. Patent	Corresponding Related Claim during
Application No. PCT/IB2004/001040 6 6 6 9 9 9 10 10 110 10 12 12 13 13 14 14 14 15 15 16 16 17 17 18 18 18 18 19 19 20 20 21 21 22 22 28 28 28 28 29 29 30 30 30 31 31 31 32 32 33 33 33 34 34 34 34 34 35 36 37 37 38 38 39 1-3 40 6 41 4 4 42 29 43 1-3	Application No. 10/552,786	International Phase of International
9 9 10 10 12 12 13 13 14 14 15 15 16 16 17 17 18 18 19 19 20 20 21 21 22 22 28 28 29 29 30 30 31 31 32 32 33 33 34 34 36 36 37 37 38 38 39 1-3 40 6 41 4 42 29 43 1-3 44 12		Application No. PCT/IB2004/001040
10 10 12 12 13 13 14 14 15 15 16 16 17 17 18 18 19 19 20 20 21 21 22 22 28 28 29 29 30 30 31 31 32 32 33 33 34 34 36 36 37 37 38 38 39 1-3 40 6 41 4 42 29 43 1-3 44 12	6	
12 12 13 13 14 14 15 15 16 16 17 17 18 18 19 19 20 20 21 21 22 22 28 28 29 29 30 30 31 31 32 32 33 33 34 34 36 36 37 37 38 38 39 1-3 40 6 41 4 42 29 43 1-3 44 12	9	9
13 13 14 14 15 15 16 16 17 17 18 18 19 19 20 20 21 21 22 22 28 28 29 29 30 30 31 31 32 32 33 33 34 34 36 36 37 37 38 38 39 1-3 40 6 41 4 42 29 43 1-3 44 12	10	10
14 14 15 15 16 16 17 17 18 18 19 19 20 20 21 21 22 22 28 28 29 29 30 30 31 31 32 32 33 33 34 34 36 36 37 37 38 38 39 1-3 40 6 41 4 42 29 43 1-3 44 12	12	12
15 16 17 17 18 18 19 19 20 20 21 21 22 22 28 28 29 29 30 30 31 31 32 32 33 33 34 34 36 36 37 37 38 38 39 1-3 40 6 41 4 42 29 43 1-3 44 12	13	13
16 16 17 17 18 18 19 19 20 20 21 21 22 22 28 28 29 29 30 30 31 31 32 32 33 33 34 34 36 36 37 37 38 38 39 1-3 40 6 41 4 42 29 43 1-3 44 12	14	14
17 18 18 19 19 20 20 21 21 22 22 28 28 29 29 30 30 31 31 32 32 33 33 34 34 36 36 37 37 38 38 39 1-3 40 6 41 4 42 29 43 1-3 44 12	15	15
18 18 19 19 20 20 21 21 22 22 28 28 29 29 30 30 31 31 32 32 33 33 34 34 36 36 37 37 38 38 39 1-3 40 6 41 4 42 29 43 1-3 44 12	16	16
19 19 20 20 21 21 22 22 28 28 29 29 30 30 31 31 32 32 33 33 34 34 36 36 37 37 38 38 39 1-3 40 6 41 4 42 29 43 1-3 44 12	17	17
20 20 21 21 22 22 28 28 29 29 30 30 31 31 32 32 33 33 34 34 36 36 37 37 38 38 39 1-3 40 6 41 4 42 29 43 1-3 44 12	18	18
21 21 22 22 28 28 29 29 30 30 31 31 32 32 33 33 34 34 36 36 37 37 38 38 39 1-3 40 6 41 4 42 29 43 1-3 44 12	19	19
22 28 29 29 30 30 31 31 32 32 33 33 34 34 36 36 37 37 38 38 39 1-3 40 6 41 4 42 29 43 1-3 44 12	20	20
28 29 30 30 31 31 32 32 33 33 34 34 36 36 37 37 38 38 39 1-3 40 6 41 4 42 29 43 1-3 44 12	21	21
29 29 30 30 31 31 32 32 33 33 34 34 36 36 37 37 38 38 39 1-3 40 6 41 4 42 29 43 1-3 44 12	22	22
30 30 31 31 32 32 33 33 34 34 36 36 37 37 38 38 39 1-3 40 6 41 4 42 29 43 1-3 44 12	28	28
31 31 32 32 33 33 34 34 36 36 37 37 38 38 39 1-3 40 6 41 4 42 29 43 1-3 44 12	29	29
32 32 33 33 34 34 36 36 37 37 38 38 39 1-3 40 6 41 4 42 29 43 1-3 44 12	30	30
33 33 34 34 36 36 37 37 38 38 39 1-3 40 6 41 4 42 29 43 1-3 44 12	31	31
34 34 36 36 37 37 38 38 39 1-3 40 6 41 4 42 29 43 1-3 44 12	32	32
36 36 37 37 38 38 39 1-3 40 6 41 4 42 29 43 1-3 44 12	33	33
37 37 38 38 39 1-3 40 6 41 4 42 29 43 1-3 44 12	34	34
38 38 39 1-3 40 6 41 4 42 29 43 1-3 44 12	36	
39 1-3 40 6 41 4 42 29 43 1-3 44 12	37	
40 6 41 4 42 29 43 1-3 44 12	38	38
41 4 42 29 43 1-3 44 12	39	1-3
42 29 43 1-3 44 12	40	6
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